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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/621,326	07/18/2003	Arnold Hoffman	HOFFMAN9	2518	
1444 73	1444 7590 10/07/2005			EXAMINER	
BROWDY AND NEIMARK, P.L.L.C. 624 NINTH STREET, NW SUITE 300 WASHINGTON, DC 20001-5303			DELACROIX MUIRHEI, CYBILLE		
			ART UNIT	PAPER NUMBER	
			. 1614		

DATE MAILED: 10/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Commence	10/621,326	HOFFMAN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Cybille Delacroix-Muirheid	1614			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status		,			
1) Responsive to communication(s) filed on					
	action is non-final.				
· <u> </u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
·					
Disposition of Claims					
4)⊠ Claim(s) <u>1-16</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.		•			
6) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.		<i>,</i>			
8)⊠ Claim(s) <u>1-16</u> are subject to restriction and/or €	election requirement.				
Application Papers					
9) The specification is objected to by the Examine	r.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 					
* See the attached detailed Office action for a list of the certified copies not received.					
\cdot					
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da				
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DETAILED ACTION

Due to the complex nature of the claims, no request for an oral election is being made.

Please see MPEP 812.01.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-4, drawn to a method of treating a tumor in a subject, by administering at least one agent which decreases the [GSH]²/[GSSG] ratio in malignant cells, classified in class 514, subclass 21+.
- II. Claims 5-16, drawn to a method of treating a tumor in a subject by administering a synergistic combination of agents that decrease [GSH]²/[GSSH] ratio in malignant cells, classified in class 514, subclass 21+.

The inventions are distinct, each from the other because of the following reasons:

The inventions described in Groups I and II are independent and distinct. The method in Group I involves treating a tumor in a subject by administering to the subject an effective amount of at least one agent that decreases the [GSH]²/[GSSG] ratio in malignant cells of the tumor, wherein the agent is administered for a period of time within the range of from about 15 to 75 hours. The method of Group II involves treating a tumor in a subject, however, the method requires administering a synergistic combination of at least two agents that decrease the [GSH]²/[GSSG] ratio in malignant cells of the tumor, wherein the at least two agents are selected from four classes of compounds. The method in Group I does not require the synergistic combination of the method of Group II. Thus, while the methods of Groups I and II achieve the same objective, i.e. treatment of a tumor by decreasing the [GSH]²/[GSSG] ratio in malignant

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cells of the tumor, they do so by employing different method steps. Moreover, the search required for the method of Group II would not be required for the method of Group I. For these reasons, the inventions of Groups I-II are considered to be independent and distinct, and restriction for examination purposes is proper.

This application contains claims directed to the following patentably distinct species of the claimed invention: For Group I, the species of compounds are described in claims 2 and 3. For Group II, the patentably distinct species for step (i) in claim 5 are described in claims 7, 11 and 13; the patentably distinct species for step (ii) are described in claim 8; the patentably distinct species for step (iii) and (iv) are described in claim 7, 8, 11, 13.

Examination of the generic claims in Groups I and II in their entirety would constitute an undue burden on the Examiner. The distinct nature of the species above is supported by the fact that each compound has a different structure/chemistry. Such is sufficient to indicate that each compound listed above is differently searched in the patent and non-patent literature and that a search for one compound will not necessarily result in a comprehensive search of any one or more of the other compounds listed. Despite the fact that applicant may have established an underlying commonality for the claimed compounds, it remains that each of the compounds are recognized in the art as being chemically and structurally distinct from one another and, thus, each of the above-identified species is capable of supporting separate patents.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1 and 5 are generic.

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Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Cybille Delacroix-Muirheid** whose telephone number is **571-272-0572**. The examiner can normally be reached on Mon-Thurs. from 8:30 to 6:00 as well as every other Friday from 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Christopher Low**, can be reached on **571-272-0951**. The fax phone number for the organization where this application or proceeding is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CDM CM-9-21-05

> Cybille Delacroix-Muirheid Patent Examiner Group 1600